BUSHE, N.A., doktor tekhn. nauk

Promising antifriction materials for diesel locomotive bearings. Trudy TSNII MPS no.277:5-15 '64. (MIRA 17:6)

BUSHE, N.A., doktor tekhn. nauk; DVOSKINA, V.A., inzh.; TOROPCHINOV, A.N., inzh.

Evaluating the properties of bearing alloys operating with various lubricants and cast iron and steel rollers (journals). Trudy TSNII MPS no.277:16-43 '64. (MIRA 17:6)

BUSHE, N.A., doktor tekhn. nauk; BLUDOV, L.S., inzh.; ZAYCHIKOV, A.V., inzh.; LADANOV, Yu.N., inzh.

Resistance of soldered joints under the effect of cyclic heating by an electric current. Trudy TSNII MPS no.277:117-125 '64. (MIRA 17:6)

BUSHE, N.A., doktor tekhn. nauk

Recent antifriction aluminum alloys. Vest. mashinostr. 44 no.8: 40-44 Ag :64. (MIRA 17:9)

EWT(d)/EWT(m)/EWP(c)/EWP(v)/EWP(t)/ETI/EWP(k) IJP(c) JD SOURCE CODE: UR/0133/66/000/002/0135/0139 L 44454-66 (N) ACC. NR: AP6018260 ANTHORS: Medovar, B. I.; Bondarenko, O. P.; Klyuyev, M. M.; Antuan, L.; Zhallas, P.; Busho, P.; Giber, Zh.; Valle, P. Modovar, Klyuyev, Bondarenko Institute for Electrowelding im. Ye. O. Paton AN UkrSSR (Institut elektrosvarki AN UkrSSR) ORG: TITIE: Experimental results obtained on the first electroslag furnace built in France according to a Soviet license SOURCE: Stal'. no. 2, 1966, 135-139 TOPIC TAGS: steel alloy, steel industry, steel microstructure, steel impurity, austenitic steel ABSTRACT: The performance of the first Soviet-built electroslag steel furnace in France is described. The performance of the furnace was tested on a number of alloy Mand austenitic steels. The chemical composition, the usual mechanical properties, microstructure, and the distribution of nonmetallic impurities in the steel ingots were determined. The experimental results are presented in graphs and tables (see Fig. 1). It is concluded from the experimental results that the furnace performance was highly satisfactory and that the electroslag method of steel smelting seems to be very promising indeed.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710020-1"

Card 1/2

BUSHEL!, A. R., and N. V. SURNOV.

Atlas konstruktsii tsentrobezhnykh i osevykh ventiliatorov. Moskva, 1935. 129 p., diagrs., illus. (TSAGI. Trudy, 1935, no. 157)

Summary in English.

Title tr.: Atlas of centrifugal and axial fans.

QA911.165 no. 157

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

BUSHEL!, A. R., and N. V. SURNOV.

Konstruktsii tsentrobezhnykh i osevykh ventiliatorov. Moskva, 1938. llil p., illus., diagrs. (TSAGI. Trudy, no.380)

Title tr.: Design of centrifugal and axial fans.

QA911.M65 no. 380 SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

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RUDENSKIY, Iosif Mikhaylovich; RASKIN, Iosif Aleksandrovich; BUSHEL!, A.R., otvetstvennyy redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor

काराम् ।, १, हे,

[Mine fans for main ventilation; atlas of construction elements]
Shakhtnye ventiliatory glavnogo provetrivaniia; atlas construktsii.
Moskva, Ugletekhizdat, 1957. 6 p. 62 diagr. (MLRA 10:8)
(Fans, Mechanical) (Mine ventilation)

PAK, V.S., professor, redaktor; BORISHEKO, K.S., kandidat tekhnicheskikh naul nauk, dotsent, redaktor; DULIN, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; BUSHEL', A.R., otvetstvennyy redaktor; D'YAKOYA, G.B., redaktor isdatel'stva; ABDREYEV, G.G., tekhnicheskiy redaktor; (MLRA 10:11) SABITOV, A., tekhnicheskiy redsktor. .

> [Mine fans and ventilation equipment; proceedings of a conference on mine fan manufacturing] Shakhtnye ventiliatory i ventiliatornye ustanovki; trudy konferentsii po shakhtnomy ventiliatorostroeniiu, g. Stalino, iiun' 1955 g. Moskva, Ugletekhisdat, 1957. 142 p.

> 1. Nauchno-tekhnicheskeye obshchestvo gornyakov. Stalinskoye oblastnoye otdeleniye. 2. Deystvitel'nyy chlen AN USSR (for Pak). (Mine ventilation)

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BUSHEL', A.R.

BUSHEL', A.R.

Effect of the desing and position of engine frames on the characteristics of axial ventilators. Prom.aerodin. no.9:35-43

157. (MIRA 10:12)

(Fans, Mechanical)

Boshel, AR.

PAK, V.S.

Readers' response to the article by A.R. Bushel', I.M. Zhumakhov, A.F. Besrukov entitled "Fans of the type TsAGI K-06, MGI series for the main ventilation of mines" (Ugol' no. 9, 1956). Ugol' 32 no.4:39 Ap '57. (MLRA 10:5)

1. Akademik Akademii nauk USSR.
(Mine ventilation) (Fans, Mechanical) (Bushel', A.R.)
(Zhumakhov, I.M.) (Bezrukov, A.F.)

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USHAKOV, Konstantin Andreyevich; BUSHEL', Aleksandr Romanovich; RASKIN, I.A., otv.red.; KOROVENKOVA, Z.A., tekhn.red.

[Mine ventilator equipment with axial flow ventilators; serodynamic characteristics and designs] Shakhtnye ventiliatornye ustanovki s osevymi ventiliatorami; serodinamicheskie kharakteristiki i konstruktsii. Moskva, Ugletekhizdat, 1958. (MIRA 12:4) (Fans, Mechanical) (Mine ventilation—Equipment and supplies)

USHAKOV, K.A.; BUSHEL!, A.R.

Investigating the effect of the number of blades on the characteristics of axial flow fans. Prom. aerodin. no.10: 36-42 '58. (MIRA 11:8) (Fans, Mechanical)

PHASE I BOOK EXPLOITATION

SOV/4820

- Ushakov, Konstantin Andreyevich, Professor, Iosif Veniamenovich Brusilovskiy, and Aleksandr Romanovich Bushel
- Aerodinamika osevykh ventilyatorov i elementy ikh konstruktsiy (Aerodynamics of Axial-Flow Fans and Elements of Their Structure) Moscow, Gosgortelihizdat,, 1960. 421 p. Errata slip inserted. 2,000 copies printed.
- Ed.: Konstantin Andreyevich Ushakov, Professor; Ed. of Publishing House: G.B. D'yakova; Tech. Eds.: S.Ya. Shklyar, and Z.A. Korovenkova.
- PURPOSE: This book is intended for workers of scientific research institutes and planning and design institutes of the ore-mining industry, and may be used by the personnel of other organizations concerned with the design and operation of axial-flow fans.
- COVERAGE: The authors describe a modern method of the aerodynamic calculation of axial-flow fans and oritically review the design of mine ventilating machines. Their method of profiling bladed rings is said to be a synthesis of the theory of two-dimensional cascades of airfoils, testing data, and of the generalized results of various systematic experimental investigations carried out by the

Card 1/8

Aerodynamics of Axial-Flow Fans (Cont.)

SOV/4820

authors at the Tsentral'nyy aero-gidrodinamicheskiy institut (Central Aero-hyd'rodynamical Institute). Individual chapters were written as follows:

K.A. Ushakov, Introduction, Sec. 3 and 6 of Ch. III, Sec. 4 of Ch. VI, and together with A.R. Bushel', Ch. XII (except Sec. 3); I.V. Brusilovskiy, Ch. I (except Sec. 4), Ch. III, Ch. III (except Sec. 2,3, and 6), Ch. IV, V, VI (except Sec. 4), Sec. 3 and 4 of Ch. VII, Ch. VIII (except Sec. 4 and 5), and Ch. X. (except Sec. 3); A.R. Bushel', Ch. VII (except Sec. 3 and 4), Sec. 4 and 5 of Ch. VIII, Sec. 3 of Ch. X, Sec. 3 of Ch. XII, Ch. XIII and Ch. XIV; A.S. Ginevskiy, Sec. 4 of Ch. I; A.A. Dzidziguri, Ch. IX; I.O. Kersten, Ch. XI; A.V. Kolesnikov, Sec. 2 of Ch. III. No personalities are mentioned. There are 107 references: 87 Soviet, 11 German, and 9 English.

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BUSHEL, A R

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PHASE I BOOK EXPLOITATION

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Gornoye delo; entsiklopedicheskiy spravochnik. t. 8: Statsionarnoye elektromekhanicheskoye oborudovaniye. Elektrosnabzheniye shakht (Mining Industry; an Encyclopedic Handbook. v. 8: Stationary Electromechanical Equipment. Electric Power Supply to Mines) Moscow, Gosgortekhizdat, 1960. 784 p. Errata slip inserted. 18,500 copies printed.

Chief Ed.: A. M. Terpigorev (Deceased); Members of the Editorial Board:
A. I. Baranov, F. A. Barabanov (Deceased), A. A. Boyko, V. K. Buchnev,
A. N. Zaytsev; Deputy Chief Edst: I. K. Kit and N. V. Mel'nikov; I. N.
Plaksin, N. M. Pokrovskiy, A. A. Skochinskiy (Deceased), A. O. Spivakovskiy, I. K. Stanchenko, A. P. Sudoplatov, A. V. Topchiyev, S. V.
Troyanskiy, A. K. Kharchenko, L. D. Shevyakov and M. A. Shchedrin;
Editorial Board for this volume: Resp. Ed.: F. A. Barabanov; Deputy
Resp. Ed.: Z. M. Melamed; N. A. Arzamasov, G. M. Yelanchik, V. K.
Yefremov, B. I. Zasadych, I. M. Zhumakhov, N. A. Letov, P. P. Nesterov,
I. A. Rabinovich, K. I. Skorkin, and V. A. Sumchenko; Authors: G. A.

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Mining Industry (Cont.)

SOV/5473

Babak, Candidate of Technical Sciences, V. D. Belyy, Professor, Doctor of Technical Sciences, K. S. Borisenko, Candidate of Technical Sciences, A. G. Borumenskiy, Candidate of Technical Sciences, I. V. Brusilovskiy, Candidate of Technical Sciences, A. R. Bushel', Candidate of Technical Sciences, V. P. Bukhgol'ts, Engineer, M. N. Vasilevskiy, Candidate of Technical Sciences, A. N. Vas'kovskiy, Engineer, B. N. Vlasenko, Engineer, I. Ya. Gershikov, Engineer, V. G. Geyer, Professor, Doctor of Technical Sciences, A. D. Dimashko, Engineer, V. S. Dulin, Candidate of Technical Sciences, I. L. Lokshin, Engineer, B. M. Melamed, Engineer, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, M. I. Mushkatin, Engineer, V. S. Pak, Academician, I. M. Perskaya, Engineer, N. M. Rusanov, Candidate of Technical Sciences, G. P. Savel'yev, Candidate of Technical Sciences, Ya. M. Smorodinskiy, Candidate of Technical Sciences, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, B. M. Furmanov, Engineer, and N. N. Chernavkin, Engineer. Eds.: Ya. M. Drozdov, Engineer, B. I. Zasadych,

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26

Mining Industry (Cont.)

SOV/5473

Candidate of Technical Sciences, N. S. Karpyshev, Candidate of Technical Sciences, N. A. Letov, Candidate of Technical Sciences, Z. M. Melamed, Candidate of Technical Sciences, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, V. I. Polikovskiy, Professor, Doctor of Technical Sciences, I. A. Rabinovich, Engineer, M. S. Rabinovich, Candidate of Technical Sciences, I. A. Raskin, Engineer, V. S. Tulin, Engineer, S. Ye. Unigovskiy, Engineer, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, M. M. Shemakhanov, Candidate of Technical Sciences, P. F. Shishkov, Candidate of Technical Sciences, and V. B. Yablonovskiy, Engineer; Eds. of Publishing House: N. A. Arzamasov and T. I. Rybal'nik; Tech. Ed.: V. L. Prozorovskaya and M. A. Kondrat'yeva.

PURPOSE: This handbook is intended for mining and mechanical engineers as well as for other skilled personnel of the mining industry concerned with the handling and operation of various installations and equipment used in mines.

Card 3/16

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Mining Industry (Cont.)

SOV/5473

COVERAGE: Volume VIII of the mining handbook contains detailed information on mine hoisting installations, machines and equipment, mine ventilation units, duct systems, dewatering facilities, various types of pumps, pump meters, pumping atations, and the automatic remote control of these units. The handbook also describes and explains the operation of the air compression units and compressors. Heat-generating and heat-supply equipment of mines is described, as are the electric power supply systems and other electrical equipment such as transformers, power distribution systems, and grounding devices. Telephone communication and signaling systems used in mines are also treated. No personalities are mentioned. Each part of the handbook is accompanied by references, mostly Soviet.

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USHAKOV, K.A.; BUSHEL', A.R.

Eliminating the instability of the performance of axial-flow fans by means of separators. Prom.aerodin. no.24:9-34 '62. (MIRA 16:7) (Fans, Mechanical)

BUSHEL', A.R.

The TSAGI TS3-04 axial flow fans for general industrial use. Prom. aerodin. no.25:33-51 '63. (MIRA 16:7)

(Fans, Mechanical)

DYLO, P.V., dotsent; BUSHRLEVA, TS.D.; LEREDEVA, L.P.

Levomycetin in the treatment of gonorrhea in the male. Zdrav. Belor. 3 no.10:44-46 0 57. (MIRA 13:6)

1. Iz kafedry kozhnykh i venericheskikh bolesney Minskogo meditsinskogo instituta i Minskogo gorveudispansera.
(GONORRHEA) (CHLOROMYCETIN)

DYLO, P.V., dotsent; SOSNOVSKIY, A.T., kand.med.nauk; BUSHELEVA, TS.D.; BASHMAKOVA, S.M.; LEBEDEVA, L.P.

Bicillin in the treatment of gonorrhea. Zdrav. Belor. 5 no.10: 32-33 0 59. (MIRA 13:2)

1. Iz kafedry kozhvenbolezney Minskogo meditsinskogo instituta, Belkozhveninstituta i Minskogo gorvendispansera. (PENICILLIN) (ETHYLENEDIAMINE) (GONORRHEA)

DYLO, P.V., dotsent; BUSHELEVA, TS.D.; RASHMAKOVA, S.M.

Phenozymethylpenicillin in the treatment of acute gonorrhea. Zdrav.Bel.9 no.2:48-49 F'63. (MIRA 16:7)

1. Minskiy gorodskoy kozhno-venerologicheskiy dispanser. (GONORRHEA) (PENICILLIN)

BUSHEN, B. N.

BUSHEN, Boris Nikolayevich, kapitan 2 ranga.

On the armored train "Dmitrii Donskoi." Mor.sap. 12 no.1:3-14 Ap '54. (MLRA 7:8) (Russia--Revolution, 1917-1921--Personal narratives)

AUTHORS:

Bushev, A. S., Vdovin, Yu. A.

sov/56-34-6-45/51

TITLE:

The Production of a Photostar and of a Fast Proton or Antiproton (Obrazovaniye fotozvezdy i bystrogo protona ili anti-

protona)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1950,

Vol. 34, Nr 6, pp. 1652-1653 (USSR)

·ABSTRACT:

Yu. A. Vdovin investigated the production of a nuclear star through an intermediate pion pair by a γ -quantum. This paper investigates an analogous process: a γ -quantum with high energy produces a proton-antiproton pair, and one of the particles of the pair is absorbed by the same nucleus which produced the star. The other particles carry off an energy which has the same order of magnitude as the total energy of the star. The whole investigation is carried out for the ultrarelativistic region where only the small angles between the momenta of the γ -quantum and of the proton (or antiproton) flying away play an essential role. The strong interaction of the proton and of the antiproton with the nucleus are

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taken into account according to the optical model. The nucleus

SOV/56-34-6-45/51

The Production of a Photostar and of a Fast Proton or Antiproton

is assumed to be an absolutely black body (with respect to the proton and antiproton) with a given radius. The nucleons may be described by the Dirac equation. The anomalous magnetic moment is not essential for so high energies. The authors assume, for instance, that the proton is absorbed, and that the antiproton flies away to infinity; the Dirac (Dirak) equation for this process is given explicitly. The wave function of the antiproton (which in the final state is a free particle) is given as a superposition of a plane wave and of the wave diffracted by the black nucleus. The authors obtain the cross section of the process by calculating the total proton flow. Then an expression is given for the differential cross section of this process. As in the scalar case, the total cross section does not depend on the energy of the γ -quantum and it is proportional to R/m. A denotes the radius which is perpendicular to $p_1(p_2)$ and goes through the center of the nucleus. \overline{p}_1 and \overline{p}_2 , for their part, denote the momenta of the proton and of the antiproton. There are 4 referencer, all of which are Soviet.

Card 2/3

SOV/56-34-6-45/51

The Production of a Photostar and of a Fast Proton or Antiproton

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut

(Moscow Engineering and Physics Institute)

SUBMITTED: March 27, 1958

Card 3/3

SLAVCHEV, Slavcho, inzh.; BUSHEV, Georgi, inzh.

"Furniture production" by [Prof. Dr.] Petko Chernaev. Reviewed by Slavcho Slavchev and Georgi Bushev. Durvomebel prom 7 no.2/3:59-60 Mr-Je 164.

1. Committee of Forestry and Forest Industry.

ANGENITSKAYA, R. [Anhenyts'ka, R.], kand.tekhn.nauk; CHUMAKOVA, O., inzh.;

BUSHEV, I., inzh.

Device for measuring deformations and internal stresses. Bud.
mat.i konstr. 1 no.1:46-47 0 '59. (MIRA 13:8)
(Strain gages)

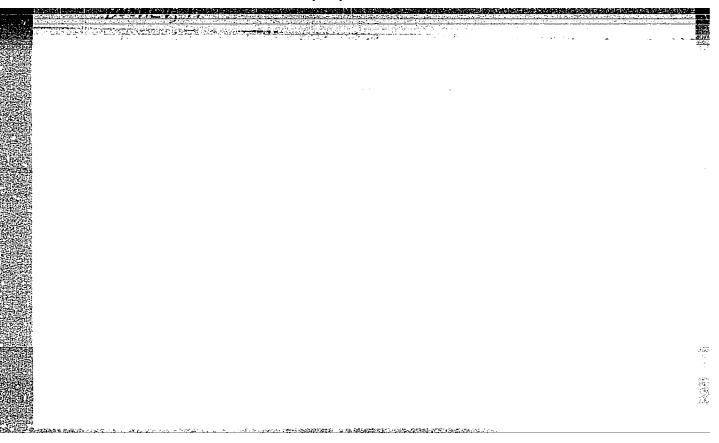
ANGENITSKAYA, R. [Anhenyts'ka, R.], kand.tekhn.nauk; BUSHEV, I., inzh.; CHUMAKOVA, O., inzh.

Diffusion point hygrometer. Bud.mat.i konstr. 2 no.1:55-56
F '60. (Mira 13:6)

Meteorological Abst.
Vol. 4 No. 5
May 1953
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New instruments and methods for studying the mechanism of the drying of colloidal capillary-porous materials. Inzh.-fiz.zhur. no.8:13-18 Ag '60. (MIRA 13:8)

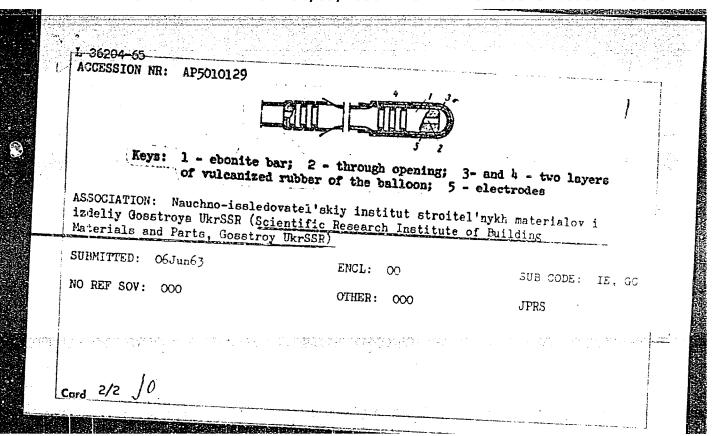
1. Akademiya stroitel'stva i arkhitektury USSR, g. Kiyev. (Porous materials--Drying)

ANGENITSKAYA, R.B.; CHUMAKOVA, Ye.A.; BUSHEV, I.G.

Diffusion "point" hygrometer for continuous automatic measurement of the permeability of silicate materials. Stroi. mat. 6 no.12: 34-35 D *60. (MIRA 13:11)

(Moisture—Measurement)
(Silicates—Electric properties)

362(4-58) PWT(d)/EWT(m)/EWA(d)/EWP(+)/EWP(5)/EWP(k)/EWP(h)/EWP(1) F3-4/F5- CCESSION NR: AP5010120 RU; UR/0286/64/000/013/0071/00	
THOR: Angenitskaya, R. B.; Bushev, I. G.; Pustyl'nik, I. A.	1
ITLE: Sensor for determination of the moisture content of a material, for exa structural part. Class 42, No. 163779	mple,
DURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1964, 71-72	: !
OPIC TAGS: industrial instrument, moisture measurement	i
ranslation: For determining the moisture content of a material, for example, a structural part, a sensor that can be inserted into the part, including a hollow bar and electrodes fastened to it. The distinguishing centure is increased reliability of contact between electrodes and the investigated material, and also the possibility of fastening the sensor at different depths. The hollow bar is placed in an elastic balloon, to the external layer of which electrodes are fastened. Orig. art. has: 1 figure	re.



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ANGENITSKAYA, R. (Kiyev); OL'SHANSKAYA, Z. (Kiyev); CHUMAKOVA, Ye. (Kiyev)

BUSHEV, I. (Kiyev).

A more rapid method of determining the frost resistance of ceramic products. Stroi.mat. 3 no.7:30 Jl '57. (MIRA 10:10) (Ceramic materials--Testing)

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Effectiveness of ultraviolet ray therapy in Heine-Medin disease. Vrach. delo no.12:136-137 D '60. (MIRA 14:1)

1. Gorodnyanskaya rayonnaya bol'nitsa Chernigovskoy oblasti.
(POLIOMYELITIS) (ULTRAVIOLET FAYS—THERAPEUTIC USE)

BUSHEV, T.A.

Case of dermatitis bullosa caused by isoamyl alcohol intoxication. Vrach. delo no.8:132-133 Ag '61. (MIRA 15:3)

1. Zaveduyushchiy meditsinskoy chast'yu Gorodnyanskoy rayonnoy bol'nitsy, Chernigovskoy oblasti.
(DRUG EXANTHES)

(ISOPENTH ALCOHOL-TOXICOLOGY)

BUSHEV, T. A.

Use of unithiol in lead poisoning. Terap. arkh. 33 no.5:103-104 My '61. (MIRA 14:12)

1. Iz Gorodnyanskoy rayonnoy bol'nitsy.

(LEAD POISONING) (PROPANESULFONIC ACID)

__BUSHEV, V., starshiy nauchnyy sotrudnik

Joint roofs. Pozh.delo 8 no.7:8-9 Jl '62. (MIRA 15:8)

SMIRNOV, V.P.; YAKOVLEV, A., kand.tekhn.nauk; PCHELINTSEV, V., kand. tekhn.nauk; BUSHEV, V., inzh.; FEDOHENKO, V., inzh.

Fire-testing of large-panel houses. Posh.delo 6 no.8: 7-11 Ag '60. (MIRA 13:8) (Fire-testing)

Mounted panel walls. Pozh.delo 8 no.3:8-10 Mr '62. (MIRA 15:4)

(Fire prevention—Laws and regulations) (Walls)

BUSHEW, V.P.; RASSADKIN, I.D., redaktor; IOFFE, M.L., redaktor; M.M. A. tekhnicheskiy redaktor.

[Fire resistance of fireproof doors] Ognestoikost' protivopozbarnykh dverei. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 36 p. (MLRA 8:10) (Building, Fireproof) (Doors)

BUSHEV, V.C. inzhener.

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New types of wallboards and their fire resistance. Pozh.delo 3 no.10:9 0 '57. (MIRA 10:11)

(Wallboards)

YAKOVLEV, A.I., kand.tekhn.nauk; MILOVANOV, A.F., kand.tekhn.nauk; BUSHEV, V.P., inzh.; FEDORENKO, V.S.

Fire resistance of thin-walled panels made of mesh-reinforced sand concrete. Bet. i zhel.-bet. no.5:224-228 My 161. (MIRA 14:6)

(Reinforced concrete construction)
(Fire testing)

BUSHEV, Vladimir Pavlovich, inzh.; PCHELINTSEV, Vladimir Alekseyevich, kand. tekhn. nauk; FEDORENKO, Vasiliy Semenovich, kand. tekhn. nauk; YAKOVLEV, Anatoliy Ivanovich, kand. tekhn.nauk; MILINSKIY, A.I., red.; KONONOV, A.S., red.izd-va; LELYUKHIN, A.A., tekhn. red.

[Fireproofness of buildings] Ognestoikost' zdanii. [By] V.P.
Bushev i dr. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 166 p.
(MIRA 16:12)
(Building, Fireproof)

YAKOVLEV, A., kand.tekhn.nauk; BUSHEV, V., inzh.; FEDORENKO, V., inzh.

Fire resistance of hollow flooring slabs made of reinforced concrete.

Pozh.delo 6 no.7:12-14 Jl '60. (MIRA 13:7)

(Concrete slabs) (Building, Fireproof)

KARAMZIN, V.I., prof.; DOVZHIK, N.S.; MALETSKIY, N.A.; GUBIN, G.V.; BUSHEV, V.P.

Using the Krupp-Renn process in processing Kerch Peninsula ores. Obog. rud 9 no.4:27-29 164. (MIRA 18:5)

BUSHEV, Yu.V.

Burning of sulfur in the melted state. Sakh. 170m. 37 no.5:47 My '63.

1. Vserossiyskiy sovet narodnogo khozyaystva RSFSR. (Sugar manufacture) (Sulfur)

ACCESSION NR: AP4040482

S/0190/64/006/006/1028/1034

AUTHOR: Frankevich, Ye. L.; Busheva, L. I.; Balabanov, Ye. I.; Cherkashina, L. G.

TITLE: Study of the semiconducting properties of polymeric copper phthalocyanine

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 6, 1964, 1028-1034

TOPIC TAGS: copper phthalocyanine, copper phthalocyanine polymer, organic semiconductor, semiconducting polymer, mobility determination

ABSTRACT: A study has been made of the semiconducting properties of copper phthalocyanine polymers with no oxygen-containing side groups synthesized earlier from aromatic nitriles (A. A. Berlin, L. G. Cherkashina, Ye. L. Frankevich, Ye. I. Balabanov, and Yu. G. Aseyev, Vysokomolek. soyed., 6, 832, 1964). The temperature dependence of electrical conductivity and thermoelectric power were determined in special equipment (described in the article): 1) in vacuum (5·10-6 mm Hg) for pellet samples degassed by vacuum heat

ACCESSION NR: AP4040482

treatment and 2) in oxygen (100 mm Hg) for samples heat treated in oxygen. The temperature dependence of conductivity obeyed the exponential law

$$\delta = \delta_0 \exp(-E/kT)$$
,

where E = 0.1 ev; in vacuum

$$\delta_{22} = (1-2) \ 10^{-2} \ \text{ohm}^{-1} \ \text{cm}^{-1}$$
.

The thermoelectric power was low (150µv/C max) and increased slowly with temperature; its/sign indicated n-type conductivity. Oxygen lowered conductivity, indicating conduction electron trapping by 02 molecules. This conductivity drop could not be reversed by removal of "weakly bound" oxygen under mild conditions (40—90C), but only by prolonged heating under severe conditions (2—3 days at 300C) which removed "strongly bound" oxygen. A new technique for determining carrier mobility in polymers is proposed which is based on the simultaneous measurement of the amount of polymer conductivity and

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ACCESSION NR: AP4040482

of desorbed acceptor molecules by mass spectroscopy. The mobility thus measured was of the order of 10^{-2} cm²/v·sec and carrier concentration of the order of $10^{18}-10^{19}$ cm⁻³. "The authors express their appreciation to A. A. Berlin and V. L. Tal'roze for their interest in this work and discussion of the results." The work was done at the Institute of Chemical Physics, Academy of Sciences USSR. Orig. art. has: 6 figures, 1 table, and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 27Jun63 DATE ACQ: 06Ju164 ENCL: 00

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Card 3/3

9'(2) \$0\(\frac{9}{1} - 59 - 11 - 18/27\)

AUTHORS: Chekhovoy, Yu.N., and Busheva, L.M., Engineers

TITLE: The Possibility of Increasing the Number of Output

Coils of the EKP-3/6 Electronic Correcting Device

PERIODICAL: Energetik, 1959, Nr 11, pp 27-28 (USSR)

ABSTRACT: The authors describe a simple conversion of the EKP-3/

6 electronic correcting device without the application of a pulse multiplier for the simultaneous control of six boilers. They refer to an article of Engineer A.M. Tsirlin "The Utilization of the EKR as a Pulse Multiplier for Pressure Control in High-Capacity Boiler Houses", published in Energetik, 1958, Nr 10. It was said in this article that the number of output coils of the EKR transformer is inadequate for a great number of boilers, especially when operating according to the parallel system, when two coils are required for each boiler. For controlling the pressure of all boilers, the pulse from the EKR transfor-

Card 1/3 mer must be multiplied. A.M. Tsirlin further explains

SOV/91-59-11-18/27

The Possibility of Increasing the Number of Output Coils of the EKP-3/6 Electronic Correcting Device

> that a rewinding of the output coils of the transformer is not permissible since the power of the electronic amplifier will be inadequate. The authors of this article state that this is true only for the "Energo-pribor" equipment. When using the equipment produced by the "Komega" plant, the number of outputs of the EKP-3/6 electronic correcting device may be doubled (ie. increased to 20) without causing damage to the electronic amplifier. The maximum number of outputs of the "Energopribor" equipment will be around eight. A rewinding of the output transformer of the EKP-3/6 electronic correcting device with addition of six additional coils was performed at one of the GRES of Donbessenergo. Such a conversion is connected with considerable difficulties. The authors recommend a less complicated method by using one special transformer-multiplier with one primary and seven seconda-

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SOV/91-59-11-18/27

The Possibility of Increasing the Number of Output Coils of the EKP-3/6 Electronic Correcting Device

ry coils. The transformation coefficient must be 1:1. The primary coil is connected to one of the output coils of the electronic correcting device. The secondary coils are connected to the fuel and air control devices. This simple conversion will eliminate the EKR multiplier. The device will serve six boilers. To the input of each control device a signal from a separate output coil will be fed. The "Komega" device may be used for the control of six boilers. In case the number of boilers to be controlled is greater than six, the multiplier suggested by Engineer A.M. Tsirlin must be installed.

Card 3/3

RUSHEVA, L.M., inzh.; CHEKHOVOY, Yu.N., inzh.

Automatic control of gas pressure. Elek. sta. 30 no.3:83

Mr '59.

(Gas, Natural) (Pressure regulators)

TOPALOV, Kiril, inzh.; BUSHEVA, M., inzh.

Possibilities of using reactive dyes in cotton industry. Tekstilna prom 13 no. 1: 19-23 64.

- G1. spetsialist of KLP (for Topalov).
 Head, Chemical Laboratory at the Maritsa State Wool -Textile Combine (for Busheva).

BUSHEYEV, O. P., and OKULOV, A. S.

Stakhanov methods for all workers. Tekst. prom., No 2, 1952.

BUSHEYKIN, I.

Replies to our readers. Sov.profsoiuzy 16 no.5:53 Mr '60. (MIRA 13:3)

1. Starshiy inspektor finansovogo otdela Vsesoyuznogo tsentral'nogo soveta profsoyuzov.

(Trade unions) (Personnel management)

BUSHIKHINA, N.N.

Use of 35 kv a.c. cables on d.c. power transmission lines. Izv.

WHIPT no.9:122-132 '62. (MTRA 15:12)

(Electric lines) (Electric lines-Overhead)

ACCESSION NR: AR4034663

S/0196/64/000/003/B007/B007

SOURCE: Ref. zh. Elektrotekhn. i energ., Abs. 3832

AUTHOR: Aleksandrova, N. P.; Bushikhina, N. N.; Mann, A. K.

TITLE: Investigation of ionization processes in the capacitive-type insulation

CITED SOURCE: Izv. N.-i. in-ta postoyan. toka, sb. 10, 1963, 83-102

TOPIC TAGS: electric insulation, capacitive type electric insulation, ionization process, electric insulation ionization

TRANSLATION: A model of capacitive-type insulation made from PE, styroflex, cable and capacitor paper was investigated with various voltages. The ionization processes were simultaneously studied by these methods: (1) Visual observation, by means of a microscope, of the dielectric luminescence in a model with a semitransparent electrode; (2) Observation of the migration of suspended particles in oil and studying the luminescence centers by an ultramicroscope; (3) Investigation of the electric luminescence of oil and suspended particles by measuring their integral luminance by a multiplier phototube. The ionization developing in the insulation subjected to an electric field manifests itself as a luminescence of the oil and

ACCESSION NR: AR4034663

suspended-particle molecules, which is caused by the molecular excitation. The luminescence of a thin layer of oil arises initially near the electrode (where the suspended particles are concentrated) as the negative charge on the electrode grant (at a field of 15 kv/mm, 50 cps). Oscillograms of the luminance of the specimens are supplied. The oil luminescence is accompanied by the oil gas saturation. As partial discharges develop, observable gas inclusions form in the oil. The ionization processes in the gas inclusions can develop if the size of the inclusion is comparable to the thickness of the oil layer between the solid-dielectric layers. When the quantity of gas evolved as a result of decomposition of oil molecules exceeds the gas absorbability of oil, a critical ionization arises. In the vacuum, the initial luminescence voltage coincides with the initial voltage of critical ionization. At higher frequencies the initial luminescence voltage is lower. Heating of laminated oil-impregnated insulation subjected to a d-c voltage is accompanied by an increasing luminescence because the electric field strength in the oil layer increases due to a changed ratio of conductivities of the insulation components. Heating of insulation subjected to an a-c voltage does not affect the intensity of luminescence. The initial luminescence voltage and the luminescence intensity are independent of the pressure and quantity of gas discoved in oil. These ways are possible for obtaining a higher working field strength of the

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capacitive-type insulation: eliminating the suspended impurity particles from oil layers in the laminated insulation; impregnating the insulation with a gas-proof oil; coating the electrodes with a thin film of an insulating lacquer. Twelve illustrations. Bibliography: 9 titles.

DATE ACQ: 10Apr64

SUB CODE: . EE

ENCL: 00

Card 3/3

BUSHILA, V.T.; POP, O.

Pathogenesis and treatment of tetanus neonatorum. Zhur. mikrobiol. epid. i immun. 31 no.3:100-104 Mr '60. (MIRA 14:6)

1. Iz kliniki infektsionnykh bolezney Meditsinskogo instituta goroda Timishoara, Rumyniya.
(TETANUS) (INFANT (NEWBORN)—DISEASES)

BUSHILA, V.T.

Prevention of recurrences following treatment of typhoid fever with chloromycetin. Zhur. mikrobiol. epid. i immun. 32 no.7:109-114 Je '61. (MIRA 15:5)

1. Iz kliniki infektsionnykh bolezney Meditsinskogo instituta goroda Timishoara, Rumyniya. (CHLOROMYCETIN)

(TYPHOID FEVER)

BUSHIN, A.N.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

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Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3905.

Author : I. Ya. Tyuryayev, A.N. Bushin, R.K. Mikhaylov, Ye. A. Sarycheva.

Inst

Title : Speed of Catalyst Carbonization at n-Butane Dehydrogenation.

Orig Pub: Zh. fiz. khimii, 1957, 31, No 1, 93-99.

Abstract: The carbonization speed of aluminochrome oxide catalyst (in the shape of half and quarter pellets about 6 mm in dia) was studied in the reaction $C_{l_1}H_{10} \rightarrow C_{l_1}H_8$ at 510 to 600°, at volume speeds of 400 to 2560 hour-1 and at the cycle duration of 3 to 68 min. It was found that under the conditions of the experiment, the amount of deposited carbon determined by the amount of CO, liberated at the catalyst regeneration does not almost depend on the volume speed and the catalyst grain size. The

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USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

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Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3905.

carbonization speed v is equal to $0.684 \exp(-15226/T + 15.11)$, where 0 is the duration of a cycle in minutes, and T is the absolute temperature.

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Bushir, A. N., Soldatov, B. Ya., SOV/64-58-7-5/18

Tyuryayev, I. Ya., Troitskaya, T. M., Gurina, P. S.

The Dehydrogenation of n-Butane on a Semiindustrial Plant With Movable Spherical Catalyst (Degidrirovaniye n-butana na polupromyshlennoy ustanovke s dvizhushchimsya sharikovym katalizatorom)

PERIODICAL: Khimicheskaya promyshlennosti, 1958, Nr 7, pp 406-409 (USSR)

ABSTRACT: This type of dehydrogenation was proposed by the Giprokauchuk. In the beginning of the investigations I. L. Fridshteyn

In the beginning of the investigations I. I. Fridshteyn participated. The investigation results of the dehydrogenation of n-butane to butylene (first stage of the two-stage method of producing the divinyl) as well as of the dehydrogenation of other paraffin hydrocarbons (propane, isobutane, isopentane) are given. The investigations were carried out in the tube reactor with immovable catalyst and an indirect heat supply (of smoke gases) as well as in the system with movable spherical catalyst with the circulating catalyst acting as heat transfer. The second technique was found to be more favorable and the single disadvantage is mentioned that the circulating granulated catalyst must have a higher

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The Dehydrogenation of n-Butane on a Semiinstrial Plant With Movable Spherical Catalyst

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mechanical strength. Experiments with bucket, pneumatic and automatic tray elevators showed that for transporting K-3 and K-5 catalysts automatic tray elevators are best. The reactor and reservator (Diagrams) of the plant were produced from DCRODY Most. The best results were obtained in the system with the movable catalyst K-5 at the following conditions: The rate of passage of butane 170-190 normal-m3 per 1 m3 catalyst per hour (temperature of butane 2000); rate of circulation of the catalyst 8.5 kg/1 kg butane; temperature of the catalyst 610-620°; temperature of the contact gas prior to its entrance into the reactor 590-600°. The experiments carried out for the dehydrogenation of gropane, isobutane and isopentane on the plant described with who catalyst K-5 were carried out with T. M. Mukhina participating in some of them. The experimental results are given in a table and show that high yields of the corresponding elefins can be obtained. There are 3 figures, 2 tables, and 5 Soviet references.

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5(1) SOV/54-59-3-4/24
AUTHORS: Tyuryayev, I. Ya., Mukhina, T. N., Bushin, A. N., Gurina, P. S.

TITLE: Catalytic Dehydration of Propane Under Semi-industrial Conditions (Kataliticheskoye degidrirovaniye propana v polupromysh-

lennykh usloviyakh)

PERIODICAL: Khimicheskaya promyshlennost, 1959, Nr 3, pp 15 -16 (USSR)

ABSTRACT: Propylene, necessary for the synthesis of poly-propylene, glycerin, washing agents, and others, can be produced by means of a catalytic dehydration of propane, although a corresponding industrial production method is not yet worked out. Laboratory experiments in the NIISS showed that industrial catalysts used for butanhydration could also serve for propanhydration, with the output of propylene corresponding to the output of butylene in the first reaction. The optimum conditions and the output achieved in both cases of dehydration, are given (Table 1), both types of catalysts were developed in the institut imeni L. Ya. Karpova (Institute imeni L. Ya. Karpov), respectively in the VNIISK. The test results of the propanhydration achieved with a device already described, are given (Ref 1). The latter

Card 1/2 served for the dehydration of n-butane into butylene on movable

Catalytic Dehydration of Propane Under Semi-industrial SOV/64-59-3-4/24 Conditions

ball catalysts (reactor diameter 500 mm, height of the catalyst layer appr. 1450 mm, volume - 270 l). The used gas had the following composition: 0.7 wt% of C₃H₆, 98.5 wt% of C₃H₈, 0.8 wt% of C₄. Datas on the catalyst activity are given, and also some test results with a better output (Table 3). The average of the heat effect of the dehydration reaction was found by means of 562 kcal/kg of the decomposed propane. A comparison is given (Ref 3) of the propylene output with that of butylene. It was found that it is possible to carry out the propanhydration on the same device as the n-butanhydration. There are 4 tables and 1 Soviet reference.

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RAZUMOV, I.M.; CHEFRANOV, O.A.; BUSHIN, A.N.; BARANOVA, P.S.

Calculation and testing of catalyst transfer in a continuous flow. Khim. i tekh. topl. i masel 6 no. 5:39-43 My '61. (MIRA 14:5)

1. Giproneftemash.

(Catalysis)

BUSHIN, B.; YEFREMOV, A.

New devices. Biul.tekh.inform. 4 no.11:24 N '58. (MIRA 11:12) (Building-Tools and implements)

BUSHIN, I.; NAZAROV, Yu.

Utilization of industrial wastes without creating new waste products. Pozh.delo 7 no.7:7-8 *61. (MIRA 16:11)

BUSHIN, IP

USSR/ Electronics - Communication equipment

Pub. 133 - 7/24 Card 1/1

: Bushin, I. P., and Vadkovskiy, N. D., Engineers Authors

: Communications and broadcasting media at the All-Union Agricultural Fair Title

Periodical: Vest. svyazi 6, 13-14, June 1954

: The elaborate arrangement of communications and broadcasting media, exhibited Abstract

at the All-Union Agricultural Fair in Moscow (August 1954), is described. It is underlined, that most of the equipment displayed was of home-made

(amateur) origin.

Institution:

Submitted

KOKURIN, Ivan Ivanovich; FAYNGERSH, Naum Samoylovich; BUSHIN, I.P., otv.red.; VENGREMYUK, L.I., red.; MARKOCH, K.G., tekhn.red.

[Automatic control of rediffusion stations] Avtomatizatsiia upravleniia radiouzlami. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1958. 53 p. (MIRA 12:1)

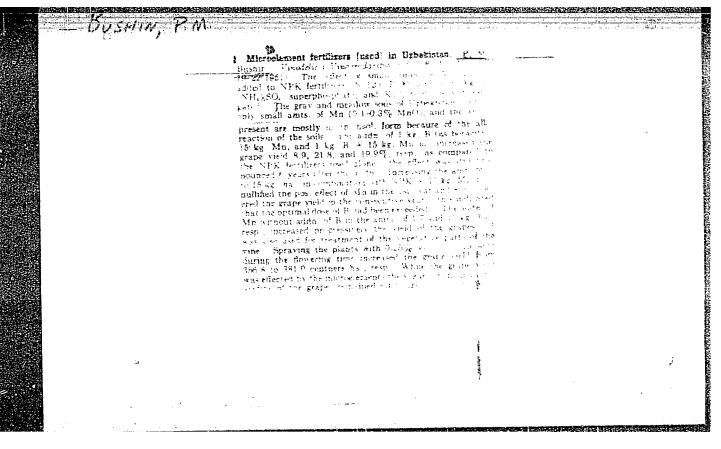
1. Nachal'nik sluzhby stantsii Direktsii radiotranslyatsionnykn setey (for Kokurin). 2. Glavnyy inzhener Direktsii radiotranslyatsionnykh setey (for Fayngersh). (Automatic control) (Radio stations)

BUSHIN, P.I.

Household vacuum cleaners. Standartizatsiia 27 no.1:50-51 Ja '63. (MIRA 17:4)

BUSHIN, P.I.

Linoxyn pipes used for electric insulation. Standartizatsiia 25 no.9:48-49 S '61. (MIRA 14:9) (Electric insulators and insulation—Standards)



BUSHIN, F. M.

Irrigation of vineyards in Wzbekistan. Vin. SSSR 12, no 7, 1952.

BUSHIN, P. M.

PUSHIN, P. M. -- "The Times and Methods of Fertilizing Fruit-Bearing Vineyards in the Umbek SSR." Min Higher Education USSR. Tashkent Agricultural Inst. Samarkand, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences)

SO: Knizhnava Letopis', No 1, 1956

Bushin P.M.

USSR/Plant Physiology. Mineral Nutrition

I-4

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29409

, Author : Bushin P.M. Inst : Not Given

Title : The Dynamics of Consumption of Nutrition Elements by the

Vine Plant.

Orig Pub : Dokl. AN USSR, 1957, No 1, 49-53

Abstract : The contents of N,P and K in shoots (I), leaves, (II), crowns (III), buds, germs and berries (IV) were studied in two experiments with the Ak kiahmish variety of vine, carried out in the Uzbeck Institute of Viniculture, where the general consumption of nutrition elements by plants in various vegetation periods was also determined. In an experiment with 35-year old bushes it was established that the content of N in II decreased uniformly from May to October from 5% to 2.5% of the dry weight; in I it decreased from May to July from 1.6% to 0.8% and afterwards it did not change; in III it decreased during May from 2.4% to 1.4% and afterwards did not change; in IV the

N content decreased from May to August from 4.0% to 0.5%. The Card : 1/2

Wzbekskiy nauchno-issledovatelskiy institut vinogradarstva-predstavleno Akad. AN UzSSR Ye. P. Korovinym.

· USSR/Plant Physiology. Mineral Nutrition

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Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29409

content of P2O5 decreased in I during vegetation from 0.5% to 0.2% in II from 1.4% to 0.5%; in III the content of P205 in May to August inclusively was 0.5% and increased till October to 0.8%; in IV the content of P205 from May to August decreased from 1.4% to 0.2%, and afterward almost did not change. The content of KoO in I and II decreased during vegetation from 2.0% to 0.8%; in III - it decreased during May and June from 3.0% to 1.5% and in October it increased to 3.5%; in IV the content of K20 decreased from May to September inclusively from 2.0% to 1.5%. The determination of the consumption of nutrients in 5-year old plantations demonstrated that since the beginning of budding to blooming the plants consumed 36.7 kg/ga of N, 8.9 kg/ga of P_{205} and 48.9 kg/ga of KoO; from the beginning to the end of blooming the plants consumed 6.9 kg/ga of N, 3.1 kg/ga of P205 and 16.0 kg/ga of K20; from beginning of germination to the ripening of the berries - 57.6 kg/ga of N, 23.9 kg/ga of P205 and 135.0 kg/ga of K20; from the beginning of the ripening of the berries till the gathering of the crop 1.1 kg/ga of N, 10.5 kg/ga of P205 : 2/2 and 23.0 kg/ga of K20.

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"USSR / Cultivated Plants. Fruits, Berries.

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: Ref Zhur - Biologiya, No 13, 1958, No. 58763 Abs Jour

Author

: Bushin, P. M.

Inst

: Acad. Sci. UzSSR

Title

: The Effect of Deep Soil Mellowing with Fertilization on the Development of the Root System of Grapes

Orig Pub

: Dokl. AN U2SSR, 1957, No 2, 49-53

Abstract

: Experiments took place at the experimental base of the Uzbek scientific-research institute of viticulture and in the soykhoz "Bulungur" of the Samarkaml Oblast. The irrigation of the Bayan-Shirey grapes was conducted in deep closed furrows; the density of shrub planting was 2.5 x 2.5 m. P_0 and K_x were introduced into grooves, which were 35-40 cm deep and 25-30 cm wide. Two top dressings were put on during the vegetation period. Deep mellowing of the soil with simultaneous

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USSR / Cultivated Plants. Fruits, Berries.

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Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58763

fertilization stimulated the development of a great number of absorbing grape roots and increased the yield capacity. The increment of yield with deep fertilization was about 30% for all the years of study in relation to control without fertilization, and about 18% in comparison with normal fertilization. --M. N. Myazdrikova

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